

Orion Lin

Senior Full Stack Engineer (React, Node.js, Python)

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ABOUT ME:

Seasoned code wizard with 12+ years of experience in the magical realms of React, Node.js, React Native, Python/Django, and AWS. I conjure up innovative software solutions, blending front-end flair with back-end brawn. Whether leading teams, charming stakeholders, or slaying deadlines, I'm the Full Stack Engineer you want in your quest for software greatness.

I work well in fast-paced environments and enjoy collaborating with diverse teams to create awesome user experiences. Always learning, always coding.

SKILLS:

Programming Languages	JavaScript, Typescript, Python, PHP, Java
Frontend	React, Next.js, Vue, Angular, Nuxt.js, Solid.js, jQuery
Backend	Node.js, Express.js, Nest.js, Fastify, Spring Boot, Django, Laravel
Database	MySQL, PostgreSQL, Oracle, SQLite, MongoDB, CosmosDB
Cloud	AWS, Azure, GCP, Firebase
AWS	EC2, S3, Lambda/Step Functions, ECS, RDS/DynamoDB, SNS/SQS, IAM
Web	HTML/CSS, REST, RPC, AJAX, JSON, GraphQL
Mobile	React Native, Java/Kotlin, Swift, Flutter
Styling	Material UI, Tailwind CSS, Ant Design, Styled Component, Semantic UI
Version control tools	Git, SVN, Bitbucket, CVS
CI/CD	Jenkins, CircleCI, Terraform
Testing tools	Jest, Cypress, Mocha, Jasmine, React-test-render, Enzyme, Playwright, Vitest
CMS	WordPress, Builder.io, DatoCMS
Soft Skills	Team Player, Time Management, Forward-Thinking, Active Listener

EDUCATION:

The Hong Kong University of Science and Technology
Bachelor's Degree in Computer Science

2008 - 2012

WORK EXPERIENCE:

Amazon Web Services

Jul 2022 - Sep 2024

Software Development Engineer III - Remote

- Projects

- Built an **e-learning platform** with rich media streaming capabilities using **React**, **Next.js**, **Python**, and **AWS** serverless.

- Responsibilities & Experience

- Built an e-learning platform that enhances AWS learning with rich video experiences.
- Built a client-facing application using **Next.js** with high streaming capabilities.
- Created a video management portal for users to upload videos and monitored the video processing pipeline using **AWS CDK** and **TypeScript**.
- Created a custom video player component with **React**, including features like transcripts and deep dives.
- Led the **design** process for responsive web applications, collaborating closely with developers and stakeholders to create user-centric designs.
- Utilized **Figma** to create interactive prototypes, wireframes, and high-fidelity designs, ensuring seamless user experiences across web and mobile platforms.
- Developed unit and integration tests for the video processing pipeline using **Jest** and **Pytest**.
- Worked with Applied Scientists to convert video-processing Python scripts into **AWS Lambda** functions.
- Improved **accessibility** and internationalization by following **WCAG** and providing translatable text content.
- Added features to annotate videos with timestamps for displaying questions and checked the current timestamp to show questions at the right moments.

Pearl Health

Sep 2020 - Jun 2022

New York, NY (Onsite)

Senior Full Stack Engineer

- Projects

- Participated in architecting and developing web & mobile telehealth applications from the ground and played a key role in architecting and developing the whole application.

- Responsibilities & Experience

- Implemented responsive and pixel-perfect UIs by using **React 18+** with **TypeScript** and **React Native(Expo)**.
- Established and maintained a scalable design system within **Figma** to streamline workflows and ensure consistency in design elements.
- Implemented **Figma's** team libraries to improve collaboration between designers and developers.
- Utilized frontend optimizing approaches like **HOCs**, **custom hooks**, and **mono repositories** and **followed memorizing best practices** to enhance performance and reusability.
- Used **Next.js** framework leveraging its server-side rendering capabilities to enhance performance and SEO optimization.
- Implemented **Redux Saga's** actions and reducers to implement asynchronous API calls.

- Managed storybook UI components to maintain reusability and documentation.
- Used **CSS3** features like media queries, pseudo-classes, multi-column layouts, gradients, and web fonts.
- Debugged UI issues on browsers using **React** dev tools and tracked code issues using console and breakpoints.
- Utilized **Node.js**, and **Django REST** framework for building micro-service backend infrastructure, establishing the communication between the micro-services using **RabbitMQ**.
- Successfully implemented real-time text and video chat application with AI integration using **WebSocket**, and **WebRTC**.
- Developed AI-powered prescription recommending system by developing machine learning models and data analysis using **Pandas**.
- Implemented data caching strategies using **Redis**, reducing page load times by 20% and enhancing overall website performance.
- Built **GraphQL** with **Apollo Client/Server** and **React Query**, to avoid over-fetching and under-fetching.
- Used **Jest**, **Cypress** and **react-test-render** for unit and integration testing.
- Utilized several Amazon Web Services including **AWS S3** to store large data, **EC2** & **Lambdas** to set up micro-services architectures, **AWS Amplify**, **SNS**, and **DynamoDB**.
- Integrated **AWS Cognito** to implement multi-factor authentication for easy setup.
- Used **SQLAlchemy**, a powerful and widely-used Object Relational Mapper (ORM) for Python, to interact with relational databases like **MySQL**, and **PostgreSQL** created in **AWS RDS**.
- Worked in **Agile** Methodology to provide more efficient and higher quality work.
- Collaborated closely with product managers to translate requirements into designs and establish precise roadmaps for project execution.
- **Mentored** junior developers through code reviews and engaged in pair programming sessions.
- Provided constructive feedback on others' pull requests through **code reviews**, enhancing overall code quality and collaboration.

Concentrix

New York, NY (Onsite)

Senior Full Stack Engineer

Jul 2015 - Aug 2020

- Projects

- Updated the **financial** stock mobile application with a user-friendly UI using **React Native**.
- Participated in developing **e-commerce marketing sites** for various clients using **Next.js**, **Gatsby**, **WordPress**, and headless **CMS** platforms like DatoCMS, builder.io, and Contentful.
- Online ordering services like EBT cash & SNAP online feature as one of the microservices using **Python/Django**.
- E-learning platform for health-related knowledge using **React**, **Node.js**, and **Python**.
- Worked on a **drug discovery platform** for a pharmacy client using tech stacks such as **React**, **Node.js**, and **Python**.

- Responsibilities & Experience

- Migrated the codebase from **JavaScript** to **TypeScript**.
- Enhanced the application's performance by incorporating memorable hooks and implementing **lazy loading**.
- Completed the offline capability by caching the data using **react-query** from the back end and using local storage.
- Participated in securing the application with the sensitive information and **encrypting** the data.

- Implemented several funding sources like bank accounts, debit & master cards as well as crypto tokens using several third-party APIs like **Plaid API, Stripe, Paypal APIs**, etc.
- Added several animations using Animated API in **React Native**.
- Used **Firestore** for integrating the authentication system, cloud messaging, and remote configuration.
- Leveraged **Django** to create a robust and scalable backend capable of handling high-traffic SNAP payments.
- Built responsive, pixel-perfect pages from **Figma** designs using **React** and **Material UI**.
- Utilized frontend optimization approaches like **HOCs, custom hooks**, and **mono repositories** and **followed memoization best practices** to enhance performance and reusability.
- Introduced **Redux Saga** to handle asynchronous updates of Redux state.
- Managed **storybook UI** components to maintain reusability and documentation.
- Used **CSS3** features like media queries, pseudo-classes, multi-column layouts, gradients, and web fonts.
- Created reusable and responsive **React** components with **D3.js** that support interactive visualizations.
- Used **Redux** promise and Redux middleware libraries such as **redux-thunk** and **redux-saga** to consume RESTful and **GraphQL** APIs.
- Made a combination of **SSR** and **SSG** for both dynamic and static pages.
- Debugged frontend applications using developer tools, console logging, and performance monitoring tools like **Sentry** and **New Relic**.
- Experienced in building and optimizing data visualizations and analytics dashboards using **LookML** in Looker for actionable business insights.
- Developed complex **SQL** queries to extract data for quarterly financial reports, including joining multiple tables and using aggregate functions to summarize sales data.
- Improved database performance by indexing key columns and rewriting inefficient queries.
- Built **Fastify** plugins for RESTful services and **WebSocket** with **Typescript** for type safety.
- Built and consumed GraphQL queries using **Apollo GraphQL**.
- Used **Jest, Cypress** and **react-test-render** for unit, e2e testing.
- Worked extensively with **AWS Lambda** for serverless computing, **EC2** instances for scalable processing power, and **S3** for secure and scalable storage of video assets.
- Built AWS serverless infrastructure using **AWS CDK** for media processing pipeline.
- Built interactive video player component with lots of UX and streaming capability on the frontend.
- Integrated **AWS Cognito** to implement multi-factor authentication for easy setup.
- Experienced in working with **ES6** and its advanced features such as arrow functions, modules, and promises.
- Implemented **Auth0** authentication within the **Next.js** application for social logins, MFA, and role-based access control by utilizing the **@auth0/nextjs-auth0** library.
- Worked with SQL and NoSQL databases like **MySQL, PostgreSQL, MongoDB, and Redis as a cache**.
- Wrote unit and integration tests using **Jest, Vitest, Mocha/Chai, Enzyme**, and **react-test-render**.
- Experienced in deploying web applications, especially in Linux environments using **AWS EC2** and **Jenkins** with a connection with our version control system - **GitHub**.
- Worked in **Agile** Methodology to provide more efficient and higher quality work.
- Collaborated closely with product managers to translate requirements into designs and establish precise roadmaps for project execution.
- Successfully **managed multiple projects simultaneously**, transitioning between different projects and teams as needed.
- **Mentored** junior developers through pair programming sessions and provided constructive feedback on pull requests, enhancing overall code quality and collaboration.

Square

San Francisco, CA (Onsite)

Full Stack Engineer

Aug 2013 – Jun 2015

- Projects

- Developed a streamlined checkout process for Square Wallet and a personalized product recommendation engine for Square Market, driving increased conversion rates.
- Designed a responsive checkout page and dynamic product listings for Square Wallet and Square Market, enhancing user engagement.

- **Responsibilities & Experience**

- Conducted **A/B** tests for promotions and refined the checkout flow, boosting conversions.
- Built a real-time engine using **PyTorch** and deployed it on **AWS Lambda** to personalize the user experience for Square Market.
- Implemented **RESTful API** and inventory management features, ensuring data integrity and merchant efficiency.
- Optimized performance with **Redis** and query caching, reducing response times.
- Worked in an agile environment, using **JIRA** to track progress and prioritize tasks.
- Built user-interactive web pages using **jQuery**, and its related plugins for carousel, data tables, and modals.
- Designed **CSS** templates for all web pages working with CSS **background, positioning, text, border, margin, padding, and table**.
- Built a custom reporting engine with graphical Excel output using **Excel JavaScript API**.
- Debugged the frontend application issues using browser developer tools such as console, inspector, and network monitor.
- Built and utilized **RESTful** web services for POST, PUT, DELETE, and GET methods.
- Enhanced performance by using optimized **algorithms** and proper **data structures**.
- Extensively used **Git** for version control, and **GitHub** as a remote server.
- Contributed to cross-functional discussions, aligning technical efforts with the product roadmap and business objectives.

Software Engineer Intern

Dec 2012 – Aug 2013

- Assisted in developing features for Square's mobile payment application, enhancing both UI and backend functionality.
- Collaborated with senior engineers on debugging and troubleshooting issues, improving technical skills and problem-solving abilities.
- Participated in code reviews and pair programming sessions, gaining exposure to agile development methodologies.
- Supported the QA team in testing new releases, identifying bugs, and verifying fixes to maintain high product quality.